Your written questions will be handed in electronically as answers.pdf

* (2)Why does the above make stringHash2() superior to stringHash1()?
* (7)Using the timing code provided to you, run you code on different size hash tables. How does changing the hash table size affect your performance? Please show results as a graph for various table sizes. For this test, remove the "resize" capability of the table.

#1

|  |  |  |
| --- | --- | --- |
| Word | Hash1 Index | Hash2 Index |
| The | 1 | 7 |
| Cat | 2 | 1 |
| Dog | 4 | 1 |
| Blue | 4 | 9 |
| Red | 5 | 6 |

Using a size of 10 and small text file of suseina.txt, these are the values they hash to, so dog and blue hash to the same value using Hash1, but different indexes using Hash2.

#2

#3

No, it returns the count of the table, i.e, how many words are in the table, so this should come back the same no mater what hash function you are using.

#4

With the given files and the given hash functions, the table load returns the same no matter which hash function you use.

#5

The empty buckets function does return different values depending on which hash function you use.

#6 13721 Empty starting at 1000

13673 Empty starting at 997 So this ends with lower number of empty buckets